



04/13/2001

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/808,124

Source: OIPE

Date Processed by STIC: 3-28-01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

USPTO
COPY

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/808,124

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

- 2 Wrapped Aminos The amino acid number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

- 3 Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.

- 4 Misaligned Amino Acid The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
Numbering between the numbering. It is recommended to delete any tabs and use spacing between the numbers.

- 5 Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.

- 6 Variable Length Sequence(s) contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and
indicate in the (ix) feature section that some may be missing.

- 7 PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
sequence(s) . Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223>
sections for Artificial or Unknown sequences.

- 8 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
(OLD RULES) (2) INFORMATION FOR SEQ ID NO:X:
 (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
 This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).

- 9 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
(NEW RULES) <210> sequence id number
 <400> sequence id number
 000

- 10 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
(NEW RULES) Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

- 11 Use of <213>Organism Sequence(s) are missing this mandatory field or its response.
(NEW RULES)

- 12 ✓ Use of <220>Feature Sequence(s) are missing the <220>Feature and associated headings.
(NEW RULES) Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
 Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)

- 13 PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted
file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

OIPE

RAW SEQUENCE LISTING DATE: 03/28/2001
 PATENT APPLICATION: US/09/808,124 TIME: 11:06:27

Input Set : A:\PTO.txt
 Output Set: N:\CRF3\03282001\I808124.raw

5 <110> APPLICANT: Potter, Robert
 8 <120> TITLE OF INVENTION: High Fidelity Reverse Transcriptases and Uses Thereof
 11 <130> FILE REFERENCE: 0942.5030001
 C--> 14 <140> CURRENT APPLICATION NUMBER: US/09/808,124
 C--> 14 <141> CURRENT FILING DATE: 2001-03-15
 14 <160> NUMBER OF SEQ ID NOS: 4
 17 <170> SOFTWARE: PatentIn version 3.0

*Does Not Comply
 Corrected Diskette Needed
 see pp. 1-3*

ERRORED SEQUENCES

87 <210> SEQ ID NO: 4
 89 <211> LENGTH: 298
 91 <212> TYPE: DNA
 93 <213> ORGANISM: Artificial Sequence
 97 <220> FEATURE:
 99 <221> NAME/KEY: misc_feature
 101 <223> OTHER INFORMATION: SuperScript II
 105 <400> SEQUENCE: 4
 106 agcgcaacgc aattaatgtg agttagctca ctcattaggc accccaggct ttacacttta 60
 108 tgcctccggc tcgtatgttg tgtggaattg tgagcggata acaatttcac acaggaaaca 120
 110 gctatgacca tgattacgcc aagcttgcac gcctgcaggc cgactctaga ggatccccgg 180
 112 gtaccgagct cgaattcact ggccgtcgtt ttacaacgtc gtgactggga aaacctggc 240
 114 gtaccacaac ttaatgcct tgcagcacat cccctttcg ccagctggcg taatagcg 298
 E--> 115 -2-

*? → Is this the source of
 the artificial sequence?*

*→ please delete the numeral at the
 end of the file. It is causing
 an invalid base count for sequence #4*

<210> 1
<211> 47
<212> DNA
<213> Artificial Sequence

<220>

<221> misc_feature

<223> Oligonucleotide

<400> 1
gagttacagt gtttttggtc cagtctgtag cagtgtgtga atggaag

47

<210> 2
<211> 18
<212> DNA
<213> Artificial Sequence

<220>

<221> misc_feature

<223> Oligonucleotide

<400> 2
cttcattca cacactgc

18

<210> 3
<211> 21
<212> DNA
<213> Artificial Sequence

<220>

<221> misc_feature

<223> response too broad.
What is the source of genetic
material in the artificial
sequences. See #12 on the
Error Summary Sheet.

See next page

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P. 3

<223> Oligonucleotide

<400> 3

gaagatcgca ctccagccag c

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VERIFICATION SUMMARY

DATE: 03/28/2001

PATENT APPLICATION: US/09/808,124

TIME: 11:06:28

Input Set : A:\PTO.txt

Output Set: N:\CRF3\03282001\I808124.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:115 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:298 SEQ:4